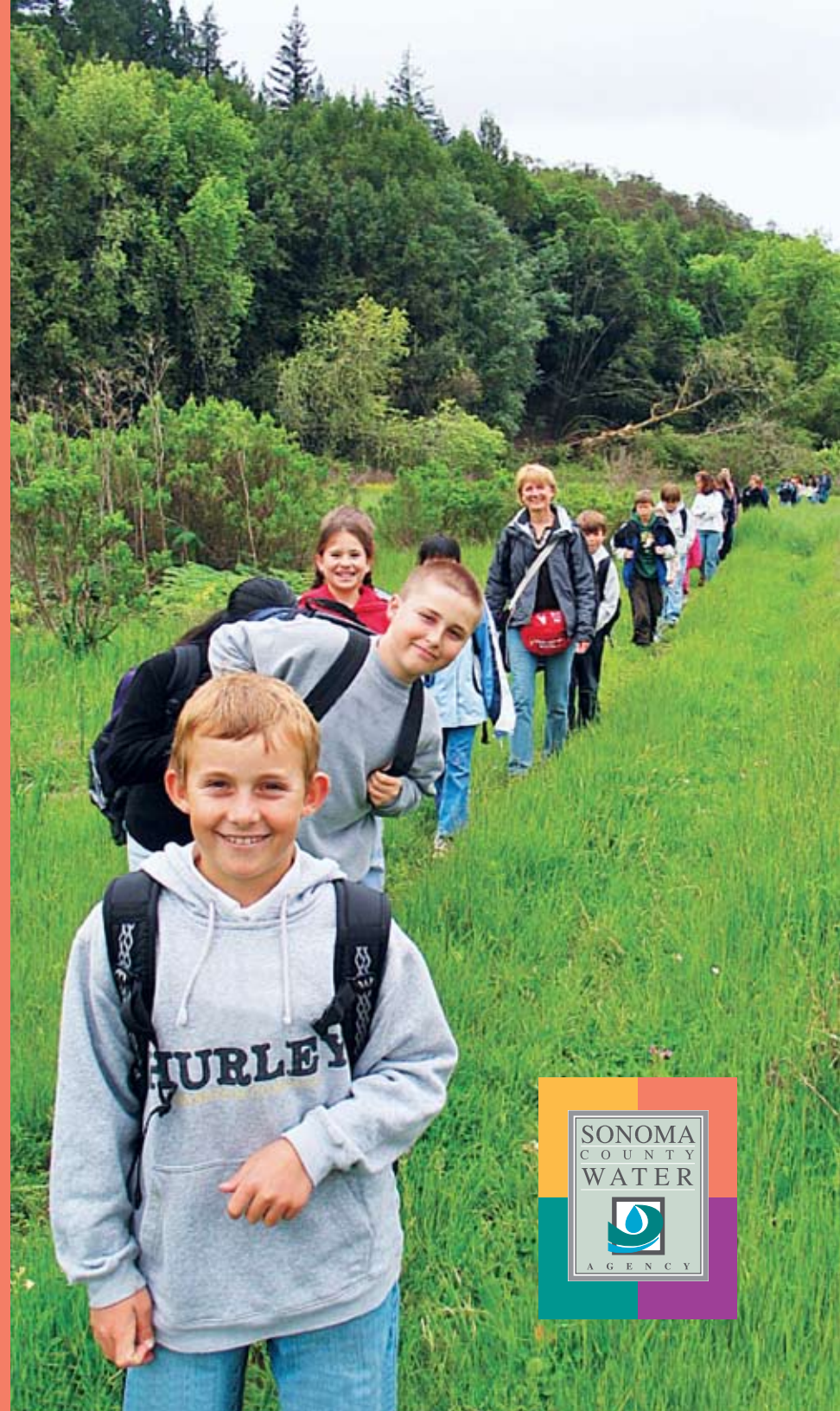


Water

EDUCATION PROGRAM 2006 – 2007





Our Water Education Program is designed to foster an appreciation of the value of water as an important natural resource and to promote water conservation and stewardship of our local watersheds.

The program has grown to include:

- Classroom instructional presentations
- Field study opportunities
- Teacher training and workshops
- Free curriculum materials aligned with the California State Standards
- A lending library of videos, interactive models, books and printed materials
- Production of the *Hydro Herald Newsletter*
- Endorsement, participation and financial sponsorship of events, assemblies and workshops

Our programs and materials are FREE to teachers in our service area and are made possible through the Sonoma County Water Agency and your local water providers. We provide engaging lessons and hands-on activities that present the hydrologic cycle, physical properties of water, water supply systems, watershed ecology, treatment of wastewater and pollution prevention. Personal responsibility for water conservation is promoted throughout the curricula. The curriculum materials and instructional visits listed in this packet have been carefully developed to support the existing California State Frameworks and are aligned with the new California Science Standards.

Now that we have returned to our spectacular 140-acre **Russian River Field Study Site in Forestville**, we will be offering fourth and fifth grade outdoor field study programs focusing on the source of our drinking water, water quality, watershed dynamics and water conservation. For third grade students we will continue to offer a classroom instructional series held at your school site. Each grade level lesson sequence has a subject specific focus that supports the California Science Standards and is designed to be developmentally appropriate. Curriculum materials are available for grades K – 12. We also have started a new assembly program for middle schools that focuses on storm water pollution prevention.

To assist you as educators, we have several terrific **workshops** scheduled this year. We will partner with Environmental Concern (based in Maryland) to facilitate both *WOW (The Wonders of Wetlands)* and *POW (The Planning of Wetlands)* workshops during the peak of the fall bird migration at a beautiful wetland site outside the City of Sonoma. We are also holding Project WET and Water Cycle “Make & Take” workshops during this school year. For detailed descriptions and dates on all of our upcoming workshops please refer to the teacher workshop section of this brochure.

Another great teacher resource is our **Lending Library**. In addition to the videos and models we have loaned out in the past, we have expanded our lending library to include books. We now have a library where you can walk in and fill up a book bag with water books, preview videos, or check out classroom sets of student guides. Also on display are samples of our student workbooks, curriculum guides, maps and student incentives. The Lending Library is open M–F from 8:00–5:00 and is located at 404 Aviation Blvd. in Santa Rosa.



We hope that you will look to us as a resource for water education, whether it is teacher workshops, curricula, supplemental materials or directly working with your students.

To schedule classroom instruction, outdoor field study instruction, order materials, or sign up for a workshop, please fill out the request form included in this booklet, or visit our website at www.sonomacountywater.org and click on the education button. For additional information or questions please call our staff at (707) 521-6211 / 521-6209.

Cary Olin *Brian Michelsen* *Dan Kahane*

Water Agency Programs Specialists
Cary Olin, Dan Kahane, Brian Michelsen

**OPEN FOR
REQUEST FORM**

FREE CLASSROOM MATERIALS

(You must be teaching the grade level of the materials you are requesting)

STUDENT WORKBOOKS (one per student)

Grade Level _____ Quantity _____

◆ Kindergarten

Water Is Your Best Friend _____

Water & Me _____

◆ First Grade

Water Fun For You _____

◆ Second Grade

About the Water Cycle _____

Water Conservation – English _____

Conservacion del Agua – Spanish _____

◆ Third Grade

Water Play – English _____

Juegos de Agua – Spanish _____

Water Fun _____

◆ Fourth Grade

Conserve Water _____

Watershed Protection _____

CA Story (one per classroom) _____

◆ Fifth Grade

The Story of Drinking Water _____

Captain Hydro _____

El Capitán Tlaloc – Spanish _____

◆ Sixth Grade

Further Adventures of Captain Hydro _____

Discover Storm Water _____

Recycled Water _____

◆ Grades 7-12

Project Water Science _____

(one per classroom)

Groundwater Education _____

(one per classroom)

◆ Grades 9-12

California Water Problems _____

(one per classroom)

CURRICULUM GUIDES

All About Water (K-3) _____

WATER EDUCATION REQUEST FORM

To place orders for materials or request classroom or field study instruction, copy and complete this form or order online at:

www.sonomacountywater.org
(click on education)

Mail or fax this form to:
Sonoma County Water Agency
Water Education Program
P.O. Box 11628
Santa Rosa, CA 95406-1628

Fax# (707) 528-2080

Liquid Explorations (K-3) _____

Dig In (K-4) _____

Water Precious Water (2-6) _____

Aquatic Habitats (2-6) _____

Schoolyard Ecology (3-6) _____

Of Cabbages & Chemistry (4-8) _____

Environmental Detectives (5-8) _____

River Cutters (6-9) _____

Acid Rain (6-10) _____

SUPPLEMENTAL MATERIALS

(one per classroom)

California Water Map – English _____

California Water Map – Spanish _____

Russian River Map _____

Russian River Relief Map _____

Use Water Wisely Poster _____

Rain Gauge _____

STUDENT INCENTIVES

(one per student)

Water Cycle Book Cover _____

Pencil Sharpener _____

Rulers _____

Pencils _____

Fish Erasers _____

Static Water Conservation Stickers _____

Colorful Animal Water Stickers _____

Folders – Water Science A – Z _____

ORDER FORM

Teacher _____

Grade Level _____

School _____

Phone # (_____) _____

Fax # (_____) _____

E-mail address _____

■ Send Classroom Materials To:

School _____

Street Address (Do not list a P.O. Box)

City _____ State _____ Zip _____

Orders are filled within two weeks of receipt and will be mailed to your school.

■ Instruction Request

Name _____

School _____

Classroom Instruction Grade 3 _____

Field Study Instruction Grade 4 _____

Grade 5 _____

We will contact you regarding availability and scheduling.

■ Teacher Workshop Registration

Register me for the following Workshops:

☐ **WOW! The Wonders of Wetlands**
Saturday October 7, 2006 • 9:00 – 4:00

☐ **POW! The Planning of Wetlands**
Saturday October 8, 2006 • 9:00 – 4:00

☐ **Project WET “Make & Take”**
Saturday January 20, 2007 • 9:30 – 3:30

☐ **Water Cycle Workshop “Make & Take”**
Wednesday February 7, 2007 • 3:30 – 5:30



KINDERGARTEN

Water Is Your Best Friend

A delightful coloring book that teaches the three forms of water and how we use water in our daily lives. (13 pages)
Includes teacher's guide.



Water and Me

Through puzzles, games and activities, this useful coloring book teaches conservation concepts. Emphasis is on the uses of water, the three forms of water, the importance of clean water and the water cycle. (16 pages)



FIRST GRADE

Water Fun For You

A book filled with coloring pages, crossword puzzles and word games for younger children. Topics include "water words," the different forms of water, salt and fresh water and how we get our drinking water. (16 pages)



Grades 1 & 2 – Environmental Discovery Center

Field study programs are being offered at the Environmental Discovery Center at Spring Lake Regional Park. For more information on their programs or to schedule a visit please call the Environmental Discovery Center at (707) 539-2865.



SECOND GRADE

About the Water Cycle

Through puzzles, games, and coloring activities, students learn how water cycles through the environment and what they can do to help keep water clean and use it wisely. (8 pages)



Water Conservation Conservación del Agua

This coloring and activity book teaches students that water is a valuable resource and should be used wisely. (8 pages)
(available in English & Spanish)

THIRD GRADE

Water Play Juegos de Agua

A colorful activity book about water. It includes messages to be decoded, puzzles, crosswords, and mazes. (15 pages)

(available in English & Spanish)



Water Fun

This colorful comic book has stories, games and puzzles designed to teach about the water cycle and water conservation. (16 pages) Includes teachers guide.

Grade 3 – Classroom Instructional Series

This program includes two, 60-minute lessons conducted by Water Agency staff in your classroom. Through hands-on experiments and discussions, students explore how their attitudes and daily habits affect their water supply source. The topics covered include:

- What is water and how does the water cycle work?
- How do living things adapt to obtain and use water?
- How do we manage our water resources for the community?

This program is available during the months of January, February and March. We are able to visit three classrooms at a school. Please coordinate with other teachers at your site before signing up (see request form included in this packet). This classroom series supports the California Science Standards.

Grade 4 – Field Study Program “We All Live in a Watershed”

What are the natural processes in a watershed? Join us as we explore 140 acres of redwood-bay forests, meadows and beaches in the heart of the Russian River Watershed. This program consists of a one hour pre-site visit to your classroom by Water Agency staff and a follow up field trip to our outdoor classroom at the Russian River. During the initial classroom visit students are introduced to watershed ecology, the concept that each small watershed is part of a larger watershed, and that everything in a watershed is connected. FREE buses are provided for the field trip. We are able to accommodate two classrooms from a school site. The program is available during the months of September, October, November, April and May. Space is limited—please see the request form in this packet or make your request online at www.sonomacountywater.org and click on the education tab.

FOURTH GRADE

California Water Story

Contains a California Water Map, teacher’s guide, trivia game, poster and video. Concepts emphasized are California geography, hydrologic cycle, history of water use in California, water use today, personal water conservation, and protecting the quality of water. (one per classroom)



Conserve Water

This full color, 16-page booklet contains games, puzzles and activities designed to teach students about water conservation.

Watershed Protection

This colorful booklet features creative hands-on investigations, educational games and stories that answer a host of questions. What is a watershed? How can you protect a watershed? What habitats support different plants and animals? 16 pages.





Grade 5 – Field Study Program “How Do We Get Our Drinking Water?”

Bring your class out to the Russian River and our groundwater pumping facilities to experience first hand the source of our drinking water. The program consists of a one hour pre-site visit to your classroom by Water Agency staff and a follow-up field trip to the Russian River. We will focus on the Sonoma County Water Agency's water supply and transmission system, water quality testing and the natural history of salmon and steelhead in the Russian River Watershed. Students practice their lab skills by collecting water samples and performing hands-on water quality testing. They use microscopes to observe the variety of aquatic macroinvertebrates that provide food for larger creatures throughout the river ecosystem. FREE buses are provided for the field trip. We are able to accommodate two classrooms from a school site. This program is available during the months of September, October, November, April and May.

FIFTH GRADE

The Story of Drinking Water Grades 5-9

This engaging booklet addresses the importance of water to all living things. Topics include the physical and chemical properties of water, hydrological cycle, water supply, treatment and distribution of water and water conservation. (16 pages) Includes teacher's guide.



Captain Hydro – Grades 5-7 El Capitán Tlaloc

A carefully crafted story featuring Captain Hydro, hero of water conservation, who battles his relentless foe, the Water Bandit. This action-packed comic book is full of activities that compare and contrast natural and man-made water cycles, study water supply issues and problems, depict treatment of drinking water and

wastewater, and review the consequences of water pollution. (40 pages) Teacher's guide includes follow-up activities and an extensive water bibliography. **(available in English & Spanish)**



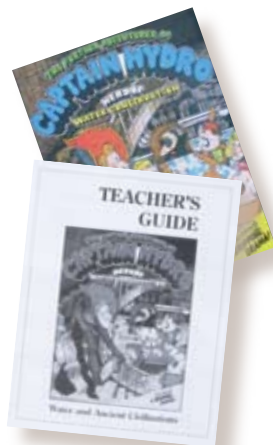
“ZunZun’s energetic and beautiful music is joyfully contagious”

— ISABEL ALLENDE, AUTHOR

SIXTH GRADE

Further Adventures of Captain Hydro

In this colorful student comic book Captain Hydro continues to battle the Water Bandit. (16 pages) Includes a teacher’s guide with reproducible student worksheets and lessons about water in the context of World History and Geography (Ancient Civilizations to 500 A.D.). Includes a glossary of water terms. (16 pages)



Discover Storm Water

This full color activity book features informative text and activities designed to teach awareness of storm water and how to prevent pollution. (16 pages)

Recycled Water

This stylized workbook includes information, puzzles, and mazes featuring the water cycle and the water “recycle.” The activity book guides the students down the drain and through the sewer system to the “water laundry” and shows how wastewater is cleaned and can be used again.



New

Assembly Program for Middle Schools!

ZUNZUN is coming to Sonoma County to perform “Water Music: A Musical Assembly About Water” at area middle schools. ZunZun is a performing arts group that celebrates the environments and cultures of the Americas through music. This highly acclaimed group has performed in 14 countries throughout the Americas and appeared on regional, national and international radio and television. Their humor, vitality and commitment to audience participation make all of their shows vibrant and lively. Their shows utilize a wide variety of folkloric instruments (they play over thirty instruments), to highlight the rich spectrum of cultures and environments they share in North, Central and South America. Their shows are always participatory, multilingual (Spanish, Portuguese, English) and energetic. Please contact the SCWA Education Program for additional information. This assembly program is sponsored by the SCWA and is FREE to the participating schools.

GRADES 7 – 12

Project Water Science

Project Water Science offers lesson plans for the study of water chemistry and how water relates to the environment. It includes a lesson plan book for teachers with 14 laboratory exercises suitable for junior high and high school science classes in either physical, earth or integrated science and is correlated to California State Science Standards. (one per classroom)



Groundwater Education for Secondary Student

This is a great resource for teaching middle and high school students about groundwater and the prevention, reduction and elimination of groundwater pollution. The 52-page booklet contains lesson plans, lectures, demonstrations, laboratory exercises, games and assessment activities. Each lesson has clearly defined objectives, complete teacher instructions and is correlated to California State Standards for Science. The lessons are designed to teach the following concepts: What is groundwater? What is an aquifer? What is the relationship between ground and surface water, and the importance of conserving groundwater? The Water Wonder Workout game is included and is a fun way for students to learn about drinking water quality. This guide also includes a California Groundwater Map. (one per classroom)

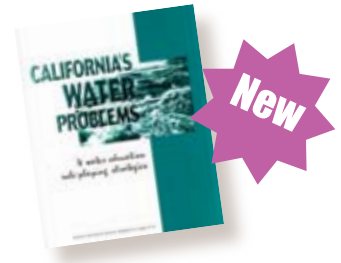


(See the lending library section in this brochure for a groundwater model that can be checked out for a two week period.)

GRADES 9 – 12

California Water Problems

California Water Problems is a series of four role-playing scenarios designed to give students first-hand experience at working out a solution to real-life problems involving the management of California's water.

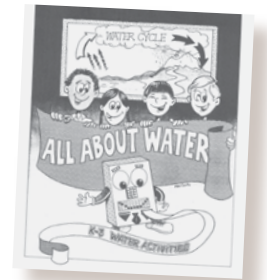


Curriculum Guides

These guides are designed to provide lessons and background information for teachers. Some guides include reproducible pages for student use.

All About Water Grades K-3

This 100-page reproducible curriculum guide contains 26 water-related activities and science experiments that involve students in observing, communicating and comparing. The activities are interdisciplinary and can be used with science, art, math, social studies, music and language arts. Topics include water quality, the water cycle, fresh water and salt water, water conservation and water distribution.



Liquid Explorations (GEMS) Grades K-3

Set-up your classroom with a series of fun, engaging activities in which students explore the properties of liquids. This guide is a fluid way to introduce younger students to the properties of matter and is an excellent physical science unit for primary grades.

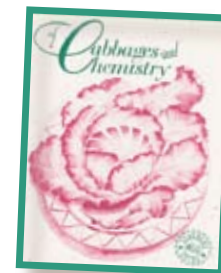
Dig In! Hands-On Soil Investigations (NSTA Press) Grades K-4

Give students the dirt on soil with 12 hands-on activities. Students will soon be up to their elbows in the study of soil formation, habitats and land use, animals that depend on soil, plants that grow in soil, soil science, and soil conservation. Each lesson plan offers helpful background, assessment methods and suggestions for further exploration.



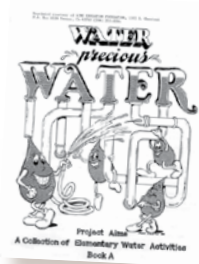
Of Cabbages and Chemistry (GEMS) Grades 4-8

Students explore acids and bases using the special indicator properties of red cabbage juice. This unit is an excellent lead-in to the GEMS guide Acid Rain.



Water Precious Water Grades 2-6

An AIMS booklet with “hands-on” water projects for the classroom. Students uncover a variety of interesting facts about water by conducting a series of four activities that focus on some of the properties of water.



Aquatic Habitats (GEMS) Grades 2-6

This guide features a selection of educational life science activities which illustrate the dynamic interactive nature of living ecosystems. Student groups set-up and observe living models of a pond in the classroom.



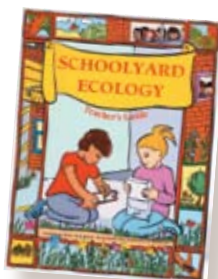
Acid Rain (GEMS) Grades 6-10

Students learn about acids and the pH scale. The unit encourages students to analyze complex environmental issues for themselves and their community.



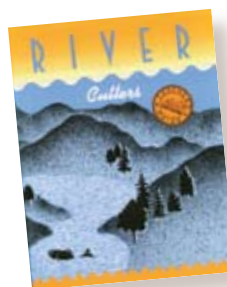
Schoolyard Ecology (GEMS) Grades 3-6

This guide is designed to spark student curiosity about the patterns and interactions in nature, beginning with their immediate environment—the schoolyard.



River Cutters (GEMS) Grades 6-9

Using diatomaceous earth, students find a way to collapse geological time in a model river system. The concepts of erosion, pollution, toxic waste and human manipulation of rivers are introduced.



Maps, Posters, Book Covers and Folders



Russian River Watershed Map
All Ages

This 24" x 36" three-color map highlights the major and minor waterways that flow over the Russian River Watershed.



New

Russian River Relief Map

This colorful 24" x 36" map shows the topography of the Russian River Watershed.



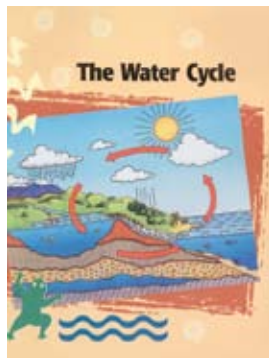
Use Water Wisely Poster
Grades K-3

A colorful and humorous 18" x 25" poster with seven illustrations of how to use water wisely. The reverse side offers a discussion guide and extension activities promoting water conservation.



Pocket Folders – All Ages

"Water Science A – Z" is the theme of these vibrant folders. They feature the inspiring art and water wisdom of children. (printed area 12" x 18")



Book Cover – All Ages

The Water Cycle—colorful and educational too! Printed on environmentally friendly paper. (printed area 11" x 18")



California Water Map – All Ages

This 24" x 36" full-color map features natural and man-made water resources in California. Water facilities are color coded to indicate federal, state and local projects and "wild and scenic" river systems. The San Francisco Chronicle hails it as the "Best water map in the state."

(available in English & Spanish)

Student incentives are available in class sets.



Pencil Sharpener All Grades

Blue rectangular
1-3/4" x 1-3/8"



Pencils – All Grades

Imprinted pencils remind students
of the importance of water.



Use Water Wisely Animal Stickers – All Grades

Colorful stickers with water
conservation messages.



Static Water Conservation Stickers – All Grades

Assorted static stick-ups with
water conservation themes can
be used on mirrors or windows.



Fish Erasers – All Grades



Rain Gauge – All Grades

Involve your students in
water science by measuring,
recording and graphing
rainfall. (one per classroom)



Fish Tattoos – All Grades

Magnet – All Grades

Colorful magnet reminds
us all to use water wisely.



Rulers – All Grades

12" flexible vinyl ruler
imprinted with water
conservation tips
scaled in inches and
centimeters.



SPECIAL WORKSHOP OPPORTUNITY!

Saturday and Sunday October 7th and 8th
WOW! The Wonders of Wetlands and
POW! The Planning of Wetlands
— recommended for K-12 educators

New

Please join Environmental Concern and the Sonoma County Water Agency for one or both of these exciting hands-on workshops.

WOW! on October 7th, features over 50 multidisciplinary activities correlated to National Science Standards. Gain an appreciation and understanding of the ecological function and value of wetlands, often called the planet's nurseries.

POW! on October 8th, provides you with the framework and the steps to create a wetland at your school, including how to select a site, calculating a water budget and creating a design and planting plan. Participate in activities you can use with your students to involve them every step of the way.

Location: Napa-Sonoma Marsh, a beautiful wetlands site outside the City of Sonoma (at the peak of the fall bird migration!)

Time: 9:00 – 4:00

Cost: \$20.00 each day (includes curriculum guides, additional education materials and lunch)

Space is limited so register early to reserve your spot! A map with directions will be sent along with your registration confirmation.



*"I loved how you
had the basic
info and then so
many ways to get
the point across.
This was great!"*
— workshop attendee

WORKSHOP DATES

WOW! The Wonders of Wetlands
Saturday October 7, 2006
9:00 – 4:00

POW! The Planning of Wetlands
Sunday October 8, 2006
9:00 – 4:00

Project WET "Make & Take"
Saturday January 20, 2007
9:30 – 3:30

Water Cycle "Make & Take"
Wednesday February 7, 2007
3:30 – 5:30



Sign Up

To register for a workshop: Use the request form attached to the front cover of this brochure, or register online @ www.sonomacountywater.org Once we receive your registration, a confirmation and location map will be mailed to you. Questions? Please call the Water Education Program at (707) 521-6211 or 521-6209.



No Educator Left Behind, “Make & Take” Workshops

We have several terrific workshops taking place during the 2006 – 2007 school year.

To sign up for our workshops use the request form attached to the front cover of this booklet or sign up online at www.sonomacountywater.org. A workshop confirmation and map will be sent to you.

We are also available to come to your school site or district office and facilitate a workshop. Gather your colleagues and we will come to you and supply all relevant materials. Workshops can accommodate up to 20 teachers. Please call the Water Education Program at (707) 521-6211 to schedule a workshop date or for additional information.

“I’m so excited about the easy to follow lessons and materials! Thank you!”

— workshop attendee



Water Cycle Workshop “Make & Take” — recommended for K-5 educators Wednesday February 7, 2007 • 3:30 – 5:30

Spend a couple of hours after school and make your own colorful Water Cycle Felt Board. We will also distribute several additional activities for use in your classroom when teaching about the water cycle. All materials and patterns will be

provided. This workshop will be held at the Sonoma County Office of Education, 5340 Skylane Boulevard, Santa Rosa, CA 95403. See left for registration instructions.

Project Wet – Best organized cross referenced teacher friendly resource I’ve seen in ages.

— workshop attendee



Project WET (Water Education for Teachers) “Make & Take” Workshop — recommended for K-12 educators Saturday January 20, 2007 • 9:30 – 3:30

Immerse yourself in water issues with our new six-hour Project WET “Make & Take” workshop! The goal of Project WET is to promote awareness, appreciation and knowledge of California’s water resources. This workshop is enjoyable, hands-on and informative. At the workshop, you will participate in several activities from the Project WET curriculum and after becoming familiar with the book we will supply you with all the materials you need to facilitate these lessons in your classroom. The Project WET guide includes over 90 innovative activities that are hands-on, easy to use and fun! Project WET is correlated to California State Standards as well as the proposed new EEI Standards and can be used when teaching science, math, language arts, social studies and environmental studies. All participants will receive a Project WET curriculum guide. This workshop is being held at the Sonoma County Water Agency Russian River Field Study Site, 9750 Wohler Road, Forestville. Lunch and snacks will be provided. See opposite page for registration instructions.



We invite you to visit our NEW Lending Library



In addition to the videos and models we have loaned out in the past, we have expanded our lending library to include books. We now have an actual library where you can come and preview videos, fill up a book bag with water related books, or check out classroom sets of student guides. If visiting us does not work into your schedule you can still call us at 521-6211 or 521-6209, and we can send you videos or put a bag of books together for you. Models are available by phone reservation, and all materials are loaned for a two week period.

Also on display are samples of our student workbooks, curriculum guides, maps and student incentives if you would like to review them before ordering sets for your class.

**The Lending Library is open
M – F from 8 – 5 and is located at
404 Aviation Blvd. (off Airport Blvd.
in Santa Rosa)**



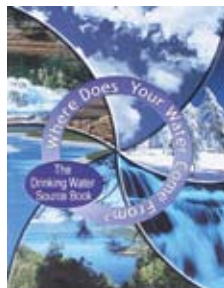
Hydroexplorer Comes To Your Home (IBM & MAC) – Grades K-5

This computer game is designed to teach elementary students about water conservation, pollution prevention, the water cycle and how water gets to the home. Players search for clues as they guide the mini-sub from a rain cloud through the maze of water pipes underground through the treatment plant into a house. Players seek to make wise water use choices.

National Science Teacher Association Water Matters Series – Grades 3-8

- **Volume 1**
Wetlands, Water Use, and Wastewater Treatment
- **Volume 2**
Navigation, Groundwater, and Water Quality
- **Volume 3 (available in English & Spanish)**
Oceans, Watersheds, and Hazardous Waste

Each Water Matters volume comes with three posters with text geared for elementary and middle school level students. Posters can be displayed separately or linked into a huge, nine-poster unit. The teacher's guide has activities that directly tie to the poster scenes.



Classroom set of Where Does Your Water Come From? The Drinking Water Source Book Grades 5-8

This 32-page informative booklet is designed to teach students about the sources of drinking water. Children learn about the water cycle, watersheds, surface water, groundwater, aquatic ecosystems, water quality and its effect on living things.



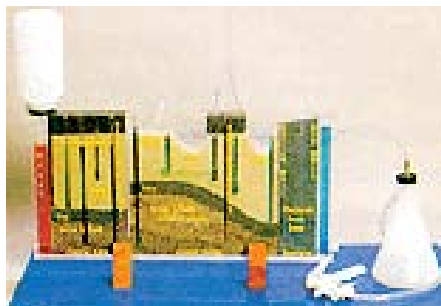
Complete Set of Layperson's Guides from the Water Education Foundation Grades 9-Adult

A series of 16 booklets which explore pertinent water issues in an easy-to-understand manner. Topics include: Drinking Water, California Water, Groundwater, Flood Management, Water Conservation, Environmental Restoration, The Delta, The Colorado River, The Central Valley Project, Agricultural Drainage, Nevada Water, Water Recycling, Water Rights Law, Water Pollution, Water Marketing, San Francisco Bay.



MTBE Risks and Issues Grades 8-12

This curriculum, MTBE Risks and Issues: Setting Taste and Odor Drinking Water Standards, combines experiments and reading material to teach students about MTBE, methyl tertiary butyl ether, in drinking water. The lesson booklet teaches students about MTBE as a drinking water contaminant, how taste tests are conducted, how drinking water standards are set, and the role of science in public policy.



Groundwater Model – Grades 5-Adult

This interactive sand-tank model is designed to simulate some of the groundwater conditions common throughout California. The model can be used to demonstrate how water moves through different kinds of aquifers under a variety of conditions, as well as the connection between surface and groundwater. There are four types of aquifers displayed by the model: Coastal drainage basins, Western and Eastern Central Valley and the fractured rock zones of the Foothill and Mountain regions. The model comes with a video tape and 18-page lesson plan book.



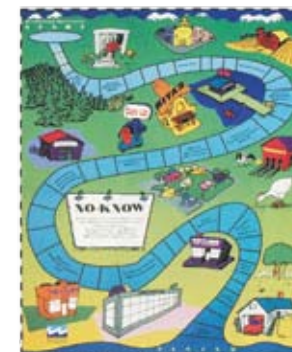
Cal Alive – Grades 4-8

This comprehensive learning package incorporates three CD-ROMS, a Classroom Guide, a Teacher Resource Guide, and an interactive website to teach 4th through 8th grade students about California's rich biological diversity.



No-Know Game Grades 5-Adult

This 17 x 22 inch plastic mounted board game teaches children and adults about the source of their drinking water, what pollutants water may encounter as it moves through the watershed, and how to avoid contributing to nonpoint source pollution. Game comes with four playing pieces, dice and 64 game cards.



Enviroscape Model – Grades 3-Adult

This tabletop watershed model depicts a community and a local water supply source. It is an interactive model where students can create pollution events using Kool-aid and cocoa to simulate pollution from pesticides, nutrients, sediments and other contaminants. Students then create a rainstorm over the community with a spray bottle and watch what happens to the local water supply. This model teaches what causes pollution and communicates to people of all ages that we can share in the solution to water pollution by changing our daily habits. Includes a teaching manual.



*Book bags can be assembled by specific or general subject matter and are available for grades K-6 at our lending library. **For videos see next page.***

Videos / DVDs



Most features are available in VHS and DVD and are loaned for two weeks.

Life Cycle of the Salmon • All Ages

This video captures the salmon story with remarkable images that reveal the salmon's world, often from their underwater point of view. A clear, informative narration complements the video and makes the program suitable for viewers of all ages. 6 minutes.

Professor Water and the Amazing Water Cycle • All Ages

Question: "What's the formula for water?"

Answer: "H, I, J, K, L, M, N, O." (You know, "H" to "O")

He's weird! He's wacky! He's the water-guy! Professor Water returns with more fun-tastic facts about the liquid everybody knows and loves (except at bath time), Water! Join the mad Professor and a cohort of kids as they ride the wondrous Water Cycle! Kids will keep learning even after they leave the classroom. Includes teachers guide. 28 minutes. — VHS only

Professor Water: Fantastic Facts About H2O • All Ages

An entertaining and educating video for kids of all ages! Join Professor Water and his wily sidekick as they take viewers from Niagara Falls to the South Pole to Death Valley to the O.K. Corral. You'll pick up a world of information on water cycles, water treatment, and water wonders along the way. 28 minutes. — VHS only

Water – Who Needs It? • Grades K-6

A fun-filled learning and activities video where children learn the importance of water to living things, how fresh water is used every day, and how each of us can protect and conserve water. 14 minutes.

Water Follies: A Soak Opera • Grades K-12

Classic, amusing, award-winning cartoon demonstrates the uses and abuses of water in and around the home. The cartoon carries a strong water conservation message without using any narrative. 7 minutes.

Take A Look at Rain • Grades 2-6

Meet Jeffrey, who isn't very excited about spending a rainy day indoors. His day is well spent, however, learning why the water cycle is important to all living things. 10 minutes.

Whaddya Know About H2O? • Grades 3-8

This exciting video educates young viewers about water conservation, its characteristics, and its role in society through 30 individual, one minute segments. It contains compelling visuals, real-world examples, fun facts, and a teacher's guide. 30 minutes. — VHS only

Our Water Cycle • Grades 4-6

All living things need water, so why don't we run out of water?

This exciting video takes you on the wildest ride of all—the earth's water cycle. You'll go up miles into the troposphere as water vapor, then plummet back down to earth as rain or snow and eventually ride the cycle all the way to the ocean or even soak down deep under the earth's surface. 12 minutes. — DVD only

The Water Cycle • Grades 4-6

This engaging video shows how the water cycle works and how water is cleaned, treated and delivered to your home. Three experiments are included that demonstrate groundwater storage, how the sun affects the water cycle and how using sand and gravel helps to clean the water. 12 minutes.

Science Court: Water Cycle Video • Grades 4-6

Is there water in the air? Science court finds out! Courtroom drama, animation and humor are used to convey the scientific concepts of the water cycle, condensation, evaporation and states of matter. 22 minutes.

The Groundwater Adventures of Walter Wet • Grades 4-6

This cleverly-animated video brings to life the nature and importance of groundwater and includes excellent conservation tips. 12 minutes.

Inside the Weather • Grades 4-6

The weather: always changing, always interesting, always in the news. Through colorful and stimulating visuals with fast paced explanations, students will see how water, air and heat from the sun create weather, how clouds form and move and why some precipitation falls as rain and some as snow or hail. 15 minutes. — DVD only

Fountains of Columbia • Grades 4-6

An interdisciplinary study of water and the California Gold Rush. This docudrama is a depiction of life in the Sierra Nevada foothills during the Gold Rush of the mid 1800's, and the importance of water to the settler's survival, all told from the viewpoint of an 11 year old girl. Teacher-student lesson plan book is included. 11 minutes.

Conserve Everyday • Grades 4-8

Fourth through eighth graders learn many ways to conserve water inside and outside the home, plus many interesting facts and figures about home water use. The hosts are three seventh-graders who demonstrate water-saving techniques in the kitchen, bathroom, laundry room, and yard. Shot in a "kid-friendly" style, the video is segmented in four short parts for watching separately or in one viewing. 16 minutes.

Waterhog Haven • Grades 4-9

This humorous video stars the "Common Waterhog" doing his thing: wasting water. Led by this infamous waster, no one practices water conservation and the town of Waterhog Haven eventually faces a dilemma. 6 minutes.

Down the Drain • Grades 4-9

Narrated by well-known child-spokesperson, Stephanie Yu, this video uses an investigative news format to teach children about the water cycle, water pollution, and water treatment. 30 minutes.

Stormwater Pollution Prevention • Grades 4-12

The Russian River Watershed Association sponsors a high school video contest each year in celebration of Water Awareness Month. See the winning videos produced by local high school students.

The Russian River – A Historical Perspective Grades 4-adult

This video is an entertaining and educational journey through the river's past told through the stories of people who live along the river. 22 minutes.

What Do You Know About H2O? • Grades 4-adult

Filled with fun and interesting facts about water. Narrated by TV commentator Dr. Frank Field, it points out some amazing statistics about how much water we use and waste. 22 minutes.

The Story of Streams • Grades 5-9

A video field trip that takes students on an exploration of streams. The emphasis is on stream features that students can see and experience. Students are challenged to think about how streams have helped shape the land, and are introduced to the physical features of streams and to the influence of streams on the history of North America. 15 minutes.

Go With the Flow • Grades 5-12

Teenage actors explain the water cycle and the difference between sewer drains and storm drains and that storm drain water is not treated prior to running into a river or other waterway. 7 minutes.

Eyewitness Pond & River Video • Grades 6-9

Based on the revolutionary Eyewitness book series, this video takes you on a twisting journey down the great rivers of the world. Viewers are given lots of fun facts spotlighting wildlife, plant life and natural wonders. Historical references and mythical stories are used to emphasize the interdependence between water and life. 35 minutes.

Water: To the Last Drop • Grades 6-12

This Discovery Channel production takes viewers to Canada, the United States, Mexico and the Middle East to study the natural history of water and to investigate the latest technologies used to make water safe. 51 minutes.

Setting A Course – The California Bay Delta • Grades 7-12

The California Bay Delta is the vital source of drinking water for 22 million people in the state and for irrigation of 4 million acres of farmland. This public television program, narrated by Timothy Busfield, explores the Delta's evolution from a natural to a highly engineered water delivery system. Includes viewer's guide. 1 hour.

The Hydrologic Cycle: Water in Motion • Grades 7-12

Developed for junior high and high school students, this video describes how water moves through the hydrologic cycle and shows how natural events affect evaporation, condensation, precipitation, runoff, and storage. 20 minutes.

H2O – 2010 • Grades 8-12

High school students are transported to the year 2010, and discover there is not enough water in California to sustain the population. Designed to get students thinking about the issues around water and its use. Includes a teacher's guide and study activities supporting the concepts. 25 minutes.

The Fate of the Jewel • Grades 9-12

A public television production hosted by actor Bruce Dern focuses on the decline in water quality of Lake Tahoe and the multi-stakeholder effort to stop and reverse this decline. Includes viewer's guide with background information, historic timeline and teacher's lesson. 57 minutes.

Groundwater Quality: Managing the Resource Grades 10-12

This video explains the importance of groundwater, defines technical terms, describes sources of groundwater contamination, and outlines steps communities can take to protect underground aquifers from pollutants. 15 minutes.

Conjunctive Use: A Comprehensive Approach to Water Planning • Grades 10-12

This video simplifies the concept of conjunctive use—coordinating surface water and groundwater supplies, which are often managed as separate resources. 11 minutes.

California Water Recycling • Grades 10-12

What is water recycling and why are communities in California turning to water recycling as part of their water supply source? This video explains how treated wastewater is recycled and reused and simplifies the often-misunderstood concept of water recycling. 25-minutes.

New

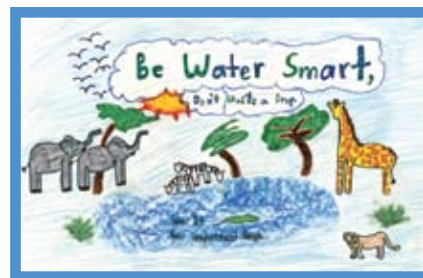


Video Contest for High School Students

The Russian River Watershed Association sponsors a video contest for high school students in honor of Water Awareness Month. The theme for this year's contest is *FOG or Fat Free Sewers – Keeping Fats, Oils and Grease out of the Drain*. Cash awards are split between the students who create the winning video and the high school they attend. The winning videos are then used as public service announcements and as educational outreach materials. Specific information on this contest will go out to area high schools in January. To view past winning videos go to our website at www.sonomacountywater.org or check out these videos at the lending library.

CONTESTS

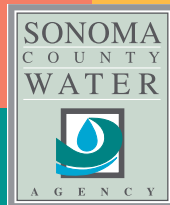
Looking Ahead: May is Water Awareness Month



Poster Contest for 3rd & 4th Graders

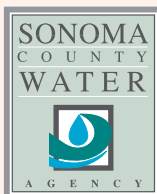
In honor of Water Awareness Month the Sonoma County Water Agency and your local water suppliers sponsor a poster contest for 3rd and 4th graders. Winning entries are then featured in the following year's Water Awareness Calendar. Additional information will be coming to your school in February outlining this year's theme, contest rules and submission deadline.

Back to School... 2006-2007



YOUR RESOURCES:

- ☒ Classroom presentations
- ☒ Workshops for teachers
- ☒ Field study trips
- ☒ ZunZun music assembly
- ☒ Curriculum materials
- ☒ Student incentives
- ☒ Lending library with books
- ☒ Videos, models and more



The Sonoma County Water Agency provides clean, low-cost drinking water to 570,000 people in Sonoma and Marin counties. Our water supply system serves eight major cities and water districts in the North Bay who help support the Water Education Program. The principal contractors include the: City of Santa Rosa, City of Petaluma, City of Rohnert Park, City of Sonoma, City of Cotati, North Marin Water District, Valley of the Moon Water District, and Town of Windsor.

ECO AUDIT

This brochure was printed with soy ink on Living Tree Deja Vu™ matte coated paper (10% hemp/flax, 50% post-consumer waste, 20% pre-consumer waste and 20% responsibly harvested wood). Using this paper for 3,500 booklets conserved 7.9 fully grown trees, 3,372 gallons of water, 358 pounds of solid wastes, 694 pounds of greenhouse gases and 1,628 kilowatts hours of electricity. Recycle this booklet at the end of the year.